

Patent Abstracts of Japan

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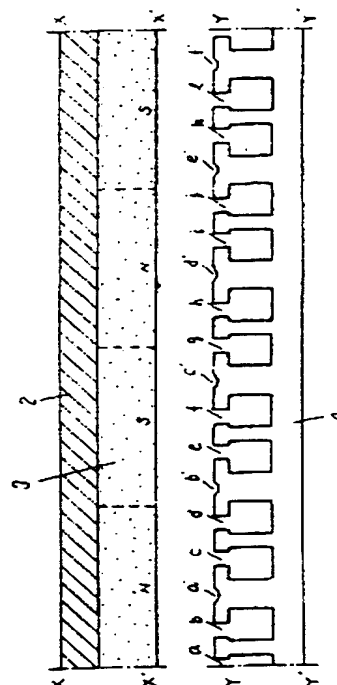
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INVENTOR : GOTO MAKOTO;

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TITLE : MOTOR



ABSTRACT : PURPOSE: To reduce a cogging torque by specifying the disposition of a groove for windings more than the number of poles of a field.

CONSTITUTION: A magnet 3 mounted on a rotor 2 has field poles of P poles (P is 4 or more integer number), and an armature core 4 has teeth formed between grooves (a)~(l) for T pieces (T is number of magnification of 3 of P or larger integer number) of windings wound with windings of 3 phases. The core 4 has L pieces (L is integer number) of long teeth at the effective pitch larger than  $D = 360^\circ/T$ , and M pieces (M is integer number) of short teeth at the effective pitch smaller than D, and the numbers of the long and short teeth are set to  $L \geq 3$ ,  $M \geq 3$ . The ratio of the effective pitch of the short teeth to that of the long teeth is set to  $R:R+1$  (R is integer number), and auxiliary grooves (a')~(f') are formed at the long teeth. The entire grooves of the core 4 made of the grooves (a)~(l) and the auxiliary grooves (a')~(f') are disposed at an interval of 1 divided by R of the effective pitch of the short teeth.

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